PHuKet Notes

Mead

SAVE

book no. _____

from _____

to _____

A

ab-rupt
ab-sorb-ent
ab-sorp-tion
abun-dance
ac-cede
ac-cel-er-ate
ac-ces-si-ble
ac-ces-sory
ac-ci-den-tally
ac-com-mo-date
ac-com-mo-da-tion
ac-cu-mu-late

B

bache-lor
bal-lot
ba-nana
bank-ruptcy
ban-quet
bar-ba-rous

greentint paper
80 sheets/gregg ruled
6x9in/15.2x22.8cm

SPELL-WRITE® STENO BOOK

Management Series™

43080

© 1988 The Mead Corporation, Dayton, Ohio 45463 U.S.A.

A

ab-rupt
ab-sorb-ent
ab-sorp-tion
abun-dance
ac-cede
ac-cel-er-ate
ac-ces-si-ble
ac-ces-sory
ac-ci-den-tally
ac-com-mo-date
ac-com-mo-da-tion
ac-cu-mu-late
achieve-ment
ac-knowl-edg-ment
acous-tics
ac-quaint-ance
ac-qui-esce
ac-quit-tal
ad-journ-ment
ad-mis-si-ble
ad-mit-tance
ad-van-ta-geous
ad-ver-tise-ment
aero-nau-tics
af-fect (verb—to influence)
af-fili-ate
air-plane
align-ment
all right
al-lege
al-lot-ment
al-lot-ted
al-ready
alu-mi-num
amend-ment
am-phib-ian
ana-lyze
an-ec-dote
ant-arc-tic
apos-tro-phe
ap-pa-ra-tus
ap-par-ent
ap-pear-ance
ap-point-ment
ap-pro-pri-ate
ar-chi-tect
ar-raign
ar-range-ment
asi-nine
as-phalt
as-sign-ment
as-sist-ance
as-ter-isk
ath-let-ics
at-tend-ance
at-tor-neys
auc-tion-eer
au-di-ble
aux-il-iary
avi-ator

B

bache-lor
bal-lot
ba-nana
bank-ruptcy
ban-quet
bar-ba-rous
bat-tal-ion
bat-tery
be-hav-ior
be-liev-able
bene-fi-cial
bene-fited
ber-serk
bi-cy-cle
bril-liant
bro-chure
budget
bul-le-tin
buoy-ance
bu-reaus
busi-ness

C

cal-en-dar
cam-paign
can-celed
can-cel-la-tion
can-di-date
can-vas (noun)
can-vass (verb)
car-bu-retor
ca-reer
cash-ier
ca-tas-tro-phe
ceil-ing
ceme-tery
cen-sus
change-able
chauf-feur
clien-tele
col-lat-eral
col-lege
co-los-sal
com-mit-ment
com-mit-tee
com-peti-tor
con-cede
con-demn
con-fi-dent
con-science
con-sci-en-tious
con-secu-tively
con-sen-sus
con-spicu-ous
con-trib-ute
con-trol-ling
con-tro-versy
con-ven-ience
corps
cor-re-spond-ent
cor-ru-gated
coun-cil (an assembly)
counsel (noun—advice; verb—to give advice)
criti-cism
criti-cize
cyl-in-der
cyni-cal

D

de-ceive
de-fend-ant
de-ferred
de-fi-cient
defi-cit
defi-nite
dele-gate
de-lin-quent
de-scrip-tion
deuce
de-velop
de-vel-op-ment
di-ag-no-sis
diph-the-ria
dis-ap-pear
dis-ap-point
dis-burse-ment
dis-crep-ancy
dis-sat-is-fied
dis-tinct
di-vine
domi-nance

E

ec-stasy
ef-fect (to bring to pass; noun—result)
eli-gi-ble
elimi-nate
em-bar-rass
emi-nent
en-cy-clo-pe-dia
en-dorse-ment
en-ter-prise
en-velop (verb)
en-vel-op-ment
er-ro-ne-ous
evi-dently
ex-ag-ger-ate
ex-ceed
ex-haust
ex-hi-bi-tion
ex-ist-ence
ex-or-bi-tant
ex-tem-po-ra-ne-ous
ex-ten-sion
ex-traor-di-nary

F

fac-sim-ile
fa-mil-iar
fea-si-ble
Feb-ru-ary
fiend
fiery
Fili-pi-no
flexi-ble
flu-ores-cent
for-ci-ble
for-eign

Source IGI / PA 19,684

IDA E. GIBBS / B 07 MAR 1877 / Wayne, Butler Co.
Father JACKSON GIBBS
Mother EVELYNE HENDERSON
Birth File No. 7804614 S.S. 55

NO Listing For JACKSON, Lawrence

IGI Ref BOSTICK —
See: BOSTEK, BOSTHICK, BOSTHWICK,
BOSTIC, BOSTOCK,
No Daniel P. /
No IDA G.
No CHARLES THAT FITS 1836 +/—
No VARNIER —
SHOWS VARNER / See WARNER

No Relative Cooper IN ANY 1992 IGI

18 CU
R. Grant

COBRA

GTN – ARABSAT + CNN – Pakapa

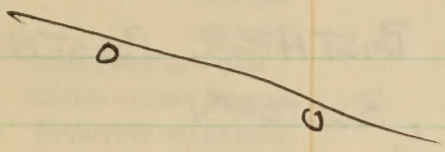
PBS. ASIASAT 1 – BBC

457PW

RANDOM ANTENNA = TO 457PW – O

also how feed is designed

1) DH PHasing – TWIN ANTENNAS



Notes

Bell Box 17" – First? NS MFG Sets – 57?

Were there Kits Sets prior? – Rush G25 Line / VK / For VK

Nat. 505?

Heath or other Strip Chart Recorder – Functional –

LV AC & DC input Ranges (Range OTU/OV) &

Paper Supply

Early TV Literature – Display Materials – Point of

Purchase Advertising – Placards,

TV Trade Magazines – Was there a Tradesman

Tech Publication ever? No

Line 405 / 405 Line Conversion / Bought Some 405 Line Sets in

AK Inst. of Tech Station 405 / 505 / Good Sets + odd Error / Amer. /

To 1958 –

Bell Adv. Pix 405 Line Sets – Converted / Am Added Conv – Fun Fram –

TRFs / as IF – Added Limit Detector – Line out

Xtors Replaced – / Frame & Line out /

Early NS Expensive –

Clients to bring in 525 us – Convert to 625

1962-3 – Philips Started to Produce

Mowat / Mrs / Am 90° Def = 21" || Philips 110° – 23" – 1964 – 25"

TRADE ITEMS || SBB 19-23-25 / – 70° 52 Spkrs – Vertical Boards /

YAESU FP 301D P/S with Spkr, Keyer

ICOM IC-PS520

Bird 43 WM – Scaled Carlton

MT 3000A (M²) Elevation Rotor w/ Control

Jim Meagher – Restaurant at Arkon

Ben - CAG Bonus III - 505 to Post Grad —
2 CATS Ben + N3BC —

OFF Film —

1981 Annual — HAS — 1

La Glorieta

7037. USD

MARTIN

12. 417.94

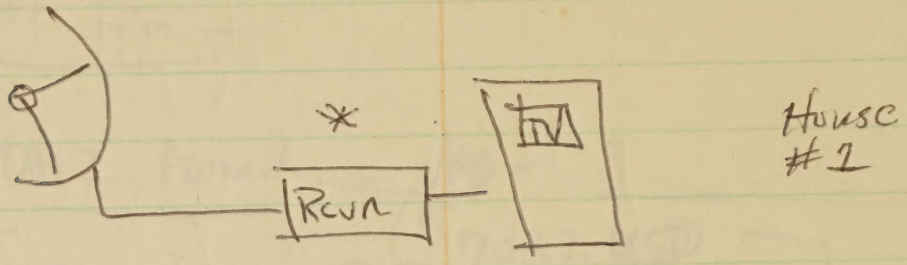
025-90-30-18

John Feller 09-579-9999

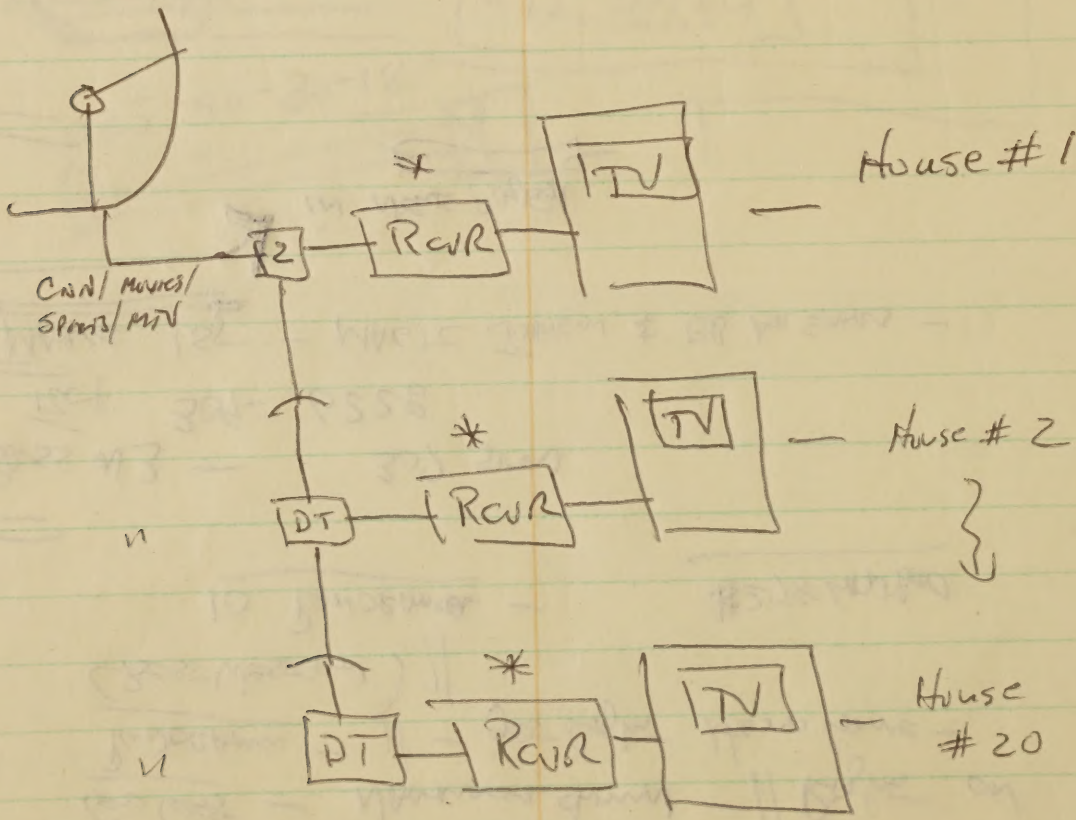
Off / To Ham / Mt Wesley Univ —
Left // (1st Lights — Major — Stripping Center —
Go Left — Narrows down — // Right on
Panorama — // — go Right Hanna Lane —
(Best Western) //
10 Panorama — $278 Landed

Bass N3 — 307 SW
Tent 309-6228
Market St — Magic Johnson & BB All Stars —
in News Paper

Programming Scits Satellite Systems



Single House System



5 Homes

Multiple House System

What History Has Taught Us

1) Programming Drives Sales —

A) Reception Quality is important — Programming Choice is More Important

(X) A Fixed Dish that Receives the Programmes of 1 Satellite - Thaisat - or a Actuator Driven Dish that Receives additional Programme Choices even if of Lower Picture Quality —

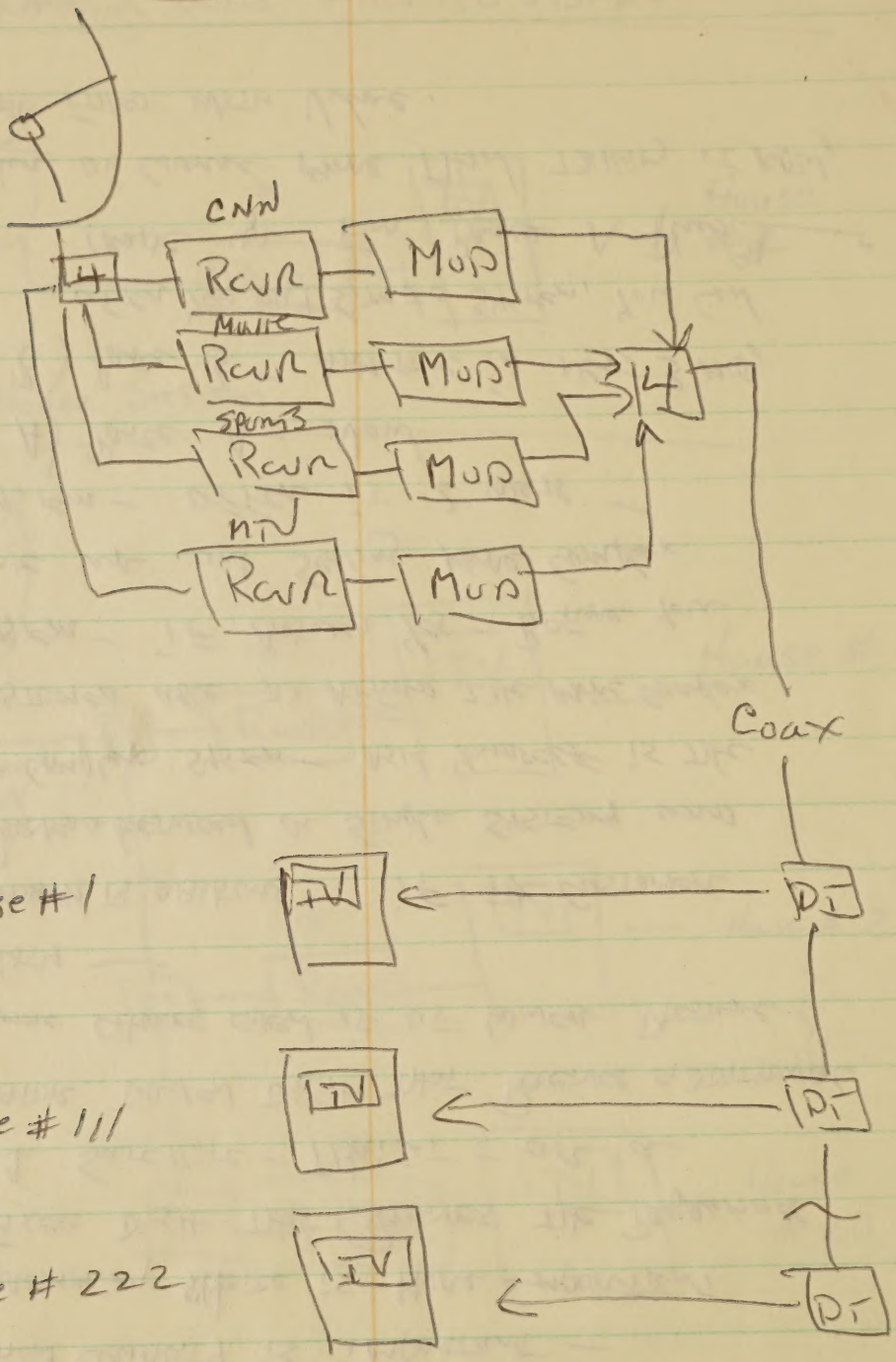
Answer is obvious — if the Customer Waivers between a Simple System and A Complex System — Ask Yourself is the Customer able to Afford the More Complex System - If Answer Yes - Before you give up on Selling More Complex System - Offer it 2 ways —

A) Price A - Now

B) Price B - Any Time in Next 3 mos, after You Buy Simple System, You Can Trade up For Price A Plus (A) —

Make Plus of Course More than Talking it Now, But Still Fixed with Value.

Cable TV


CNN
Rcvr
Mod
Rcvr
Mod
Rcvr
Mod
Rcvr
Mod
Coax
House #1
TV
House #111
TV
House # 222
TV

Shared Antenna Systems —

A) Any Satellite System Can Feed More Than 1 TV Set —

1) This Can be Configured So Viewers Have The Same Ch. Simultaneously or 2 or More Chs Simultaneously

B) In Countries Such as India - There Are Thousands of Shared Systems — Called SMATV —

1 Home Owner Buys A Dish, or Several Together Buy a Dish —

1) Each Home Can use Same dish - And have Separate & Independent Control over Prog Selection —

2) Within 500 Meters (+/-) of Dish, Thru Coaxial Dist. Network, Each Home Plugs into 900 - 1400 MHz IF of Dish LNB And each Selects own Progs —

In India - For 100 Rupees - US $5 per Month — A Typical SMATV System Reaches upwards of 20 Sep. Homes —

A) You Sell 1 Dish, And, You Sell Separate Receivers - 1 TV each Home —

Think of Selling 1 Dish & 20 Rcvrs For each Sale —

Your own business is now much Bigger —

You yourself may wish to sell the Dish, And Rents, but Pay Fee & Retain Control of the Coaxial Cable Network — As a means of Creating additional Income For Your own Business — Monthly income That Comes to You in ever increasing amounts As Your Sales grow —

There Are Many Variations on approaches To this Possible —

1) Add 2nd Dish — Run 2nd Cable — To offer Programmes From 2 Sep Sats on From VT Pole 1 Cable, Hz Pole Second Cable

Next Step up is True Cable TV — each Tel Has its own dedicated Rent — its own dedicated Modulator at Ant Site — Cable Runs To Home Where Standard TV Sets Simply Change Chs To Change Programs —

A) Usually only Feasible with a minimum of 300-500 Customer Homes within 5-7 Km of Cable From Ant — As a Minimum —

It's important to think of Sat Pgms as a commodity — to think how you can maximize the # of Pgms, to the largest possible # of users customers — at the lowest possible cost per user.

Where local low altitude — the most expensive distribution method is through the air — A ½ watt UHF TV transmitter can provide high quality LOS coverage over distances to 3-4 km — But each Pgm ch. requires a Sep TX & as you add TXs, you increase technical complications —

It is very difficult to sell something you just think add and to collect for that svc — unless you have a means of security — scrambling — in place. And the cost of scrambling — on a small scale — can exceed the revenue to be expected, then the app is not a business — it is a gift service.

What we have learned in 13 years of DTH – ( ) is that People with Pay Money For Improved Television – and the Size of the MARKET POTENTIAL Reaches around 5% of the Homes when the Cost is NOT over 10% of Annual Income – but it grows to 50% when the Cost Per Home is down to 5% of Annual Incomes.

IF the Average Home HAS An Income of 150,000 Bucks Per Year – A ~~System~~ Service that Costs 15,000 Bucks – 10% – will Attract 5% of the Homes earning this Amount or More –

But IF the Cost of the System or Service could be Reduced to 7500 Bucks – it should attract 50% – ½ of the Homes –

So You design Your System to deliver Maximum Service – Pictures – at the Lowest Cost Per Home –

50 PH – 4% per day – 2 pp/w –

50

140000

15,000

We Have also Learned That TYPES of PGMES Are Important — The MOST Appealing PGM ~~Sour~~ Categories are —

1) Movies
2) Sports → With Sports being more Important to Men than Women — And
3) Music → Music being more Important to Viewers Aged 10 – 30 than any other Age Group — Male & Female.
4) News

Big Cultural Problems — Because Music as TYPIFIED by MTV — is Targeted at a generation 10-30 which is the Future World & Keeper Source for a Continuous Future —

What You Are Selling is The EQUIPMENT To Deliver More CAS of TV PGMing TO More People You Are TYPICALLY A TECHNICALLY ORIENTED Person — You get excited WITH Receivers, Knobs, Pushbuttons, Knobs —

Your Customers — Wants all of These Things To be POSSIBLE — The Less You Say or explain about The EQPT itself The better Your Sales will be.

Don't Have our Sales Brochures That Describe Your Receiver — FIRST — Have our brochures That Describe The Programming CAS —

Programming Sells Systems - The very best Sales Tool You Can have For The First Year is 1 or more Small Trailers, each Equipped with A Fully operational Satellite Dish -

You Drive To A Potential Customers Home - Park The Trailer in Their Yard And in 30 minutes or less You have That Dish Pointing at a Satellite, Connected To their TV Set, Showing Sat TV -

Leave it overnight - But NO longer - Offer To Leave it For a Small Rental fee O/N - And If after 1 night They Are not Ready To buy a System From You, You drive off. If They do agree To buy a System - You Waive - Forget - The O/N Rental fee.

As Your Biz grows - You may have Many Trailer Mounted Dishes - You May even Consider Renting Dishes Systems For Weekends or Special TV events To Facilities Such As This Hotel - by Setting up The Dish & Wiring into Their Master Sys. w/ A Monthly Fee For a Once Rental fee For a Day or Week.

One example - I notice this Hotel has many German tourists - on Intelsat every day there is a German TV network 30 minute newscast sent all over the world - 200 German tourists who would appreciate 30 minutes per day of Germany's home news sounds like a big opportunity to me -

The World of Sat TV is very big - very diverse - and every month, every year it grows bigger, more diverse - Your Thai ~~Hotel~~ customer has no interest in German language TV - The German tourist here has no interest in Thai TV - Sat TV has something of interest for both and you will have the effort and knowledge and special skills to sell them both something they cannot have without your help.

The PGM is an Impossible - You are selling ~~Pay TV~~ access to TV PGMing - not LNBS & Dishes -

Questions?

09-579-9999

John Feller

OCC 2 Sports Events

A) 5 yr NZL Contract / 8 MBPS - x2 - from BBC TV Centre West London

1) Copyright - Will Sky play on active ports in the Kiwi Cable Suits - or will govt. represent Sky?

2) NBR Article - This is very old Material - all Williamson did is Re Confirm time table of National TV to Privatize TVNZ -

3) UHF TVNZ - Who you event above BCL Bidding TV Supply TVNZ - How With TVNZ Stock ownership do you Manage to get Outside Supplier Cover - Thomson) into Supplier Group?

4) Videocrypt - Runs 2 levels on encryption - one only Receiver The Box in place - Sky has been observed Running this Lower Level for weeks on end - Satellites - Why do this?

A) Cards - From UK? - Who -

B) While it is Correct As you point out this if Pirates Hack the System a new Card can be issued with new Security - isn't this an Expensive, Cumbersome Technique to Implement?

5) Could I can to get Monthly Update on # Subs & % Penetration? To Publish? - Can I have Last 12 mth Stats to begin with?

Blown Green

Le VBI Love Fun entertainment versus Love 21 et all Context Mechanic now being fed TV Com Channel, SA — what Loves Fun entertainment — ?

A) Could Context Flow There

B) Com Viz ——— ? ———

1) Blow Via ———.

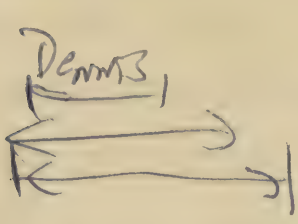
JOHN F/

6) PAN AM SEC - WIFE (SHE) VISITED YOU - DID YOU GET any THANKSGIVING LETTER QUOTES??

A) COMING BACK IN NEXT few WEEKS - do you KNOW THAT? -

1) PERHAPS TO SEE TWA??

Pre Press 09-438-0511



55 - [120] 24 w Liner

A4 Bonnie $12.00 ⇒

2 9 -

Scans $9.00

Dennis - [Thompson] II

Level 2

National Mutual Bldg.

30 Rattbone St.

Fax

Oth

Dennis Thompson

Pre-Press

Level 2

National Mutual Bldg

30 Rattbone St

Wellington

Fax-Phone 09-438-0511

Rainy Day Books — 9pm-9am
603-585-3448
Frank · Bequaert

ZLBTY on Jan 08, 1994
03-768-7388
Boxing Day — 0125 - VK1VP —
148.031, 035, 042 — (086)

TR Spoke — Have Pix — Saw 4 Knickers 1 —
Jim Jackson / TV3 Medcit a Confusion Pleased not
involved — Very Cute Cookie — Aligned Antennas —
TO Greymouth — Sorry it Arrived — Caught 25W / 5W Running —
in Storm New Eqpt — No Confirmation — Written Agreement

Pac Sat — Rumaka — Commenced XMTSN — Keith McDonald —
2 Cats — In Hokitika — Good Pix — $90 Postage
deal For new Antenna —
in Greymouth — a down Card For Cable — Cable Reason —
if Station Project — it would be Suggested
Cable Fee Pile-Ahead —
TV 5 Suggestions — Cat. adjacent TO Those used in
Greymouth — desperate — TO Keep out of Greymouth —
TV 2-3 / TV-ON 5 — Main on 7 & 9 —
TV 3 Main on 11 — X Ltn — Cats 1 —
only Vinyl Jacket — Lousy Cable — on Ducts
Alternative Pole — Back Fences = not
Across Sts —

15/12/93

New

88.9 RFO

90.2 (NOT RFO)

90.6 RFO

92.6 (POSS EE?)

97.4 RRB/T

99.3 RFO

105.7 (BLK CHR. IS. MUSIC)

Fiji FMs

95.4
96.0
99.6
97.4
98.8
101.6
102.6
98.0
98.4
104.0

FKB FMs

RFO

89.0
89.3
90.4
91.4
93.0
93.5
95.5
95.8
96.0
96.8

Radio Dijido

92.0
92.2
92.8
106.2

RRB

97.5
99.8
100.0
100.4
106.7

99.6	FM 96	0.6	Ba, Fiji
99.6	"	0.0125	Sigatoka, Fiji
99.8	RRB|T(5)	0.1	Touho
100.0	LHI	0.03	Lord Howe Island
100.0	AFRS	1.0	Roi Namoi Is.
100.0	RRB|T(1)	0.5	Mont do, NCC
100.0	RFO	0.1	Uvea, Wallis Is.
100.4	RRB	0.5	Noumea, NCC
100.5	RRB|T(4)	0.1	Kowe, NCC
101.1	WVUV	9.41K	Leone, Samoa
101.2	LatitudeSun	—	Noumea, NCC
101.6	FM 96	0.0125	Sigatoka, Fiji
102.0	ZK22N|T	0.1	Radio Suva Shone, Makapu, Niue
102.6	FM 96	0.6	Ba, Fiji
103.3	ZK1ZD (104 FM)	0.2	Avarua, ~~Fiji~~ C.I.
104.0	Radio Fiji	1K	Suva, Fiji
104.7	Radio Kenoo (ZRRSIT)	—	NCC
105.7			
106.2	Radio Dijidu	0.5	Aoupine, NCC
106.7	RRB|T(6)	0.1	Quaco, NCC

94.1	RFO	0.01	WALA
94.3	RFO	0.01	CANALA
94.6	A3E/T	0.01	TONGA
95.0	RFO	0.01	PINES IS.
95.0	"	"	VAO
95.4	FM 96	0.6	EE
95.4	"	1.0	LAUTOKA
95.5	RFO	0.3	QUAEO
95.8	RFO	0.3	TOUHO
95.9	2ABC R/R	0.1	NORFOLK
96.0	FM96	1.0	SUVA, FIJI
96.0	RFO	1.0	MONT-DO
96.8	RFO	0.05	KONE
97.2	A3E	0.008	TONGA
97.4	FM96	0.6	LAMBASA
97.4	"	1K	LAUTOKA
97.4 (ORBIT)			
97.4	Radio Dijido	0.5	NOUMEA, NCL
97.5	RRS/T (3)	0.1	LIFOU, NCL
98.0	Radio Fiji	—	SUVA
98.0	Radio Kiribati	0.1	TARAWA
98.0	4BJ—	0.2	PORT VILA
98.1	Radio Polynesia	8K	SAMOA
98.5	4BJ—	0.01	VANUATU
98.8	FM 96	1K	SUVA
99.0	RFO	0.3	ANOPINIE, NCL

88.7 (LOWER) .01 VANUATU

FREQ	STATION	KW	LOCATION	STATION
89.0	RFO	0.3	Noumea, NC	
89.0	RFO	0.1	Wallis Island	
89.3	RFO	0.05	Houaïlou, NC	FM1 Net
89.3	RFO	0.05	Port Boise, NC	" "
89.9	2ABC-FM (NOT) RFO	0.1	Norfolk Is.	Stereo
90.2				
90.2	RFO	0.3	Noumea, NC	
90.3	RFO	0.01	Poum NC	
90.4	RFO	0.01	Hienghene, NC	
90.4	RFO	0.01	Yate, NC	
90.6 90.5	RFO RFO	0.1	Wallis Is.	
91.0	ZK2ZN	0.1	Alofi, Niue	
91.0	RFO	0.1	Mont Mangi Wallis Is	
91.3	ZK1ZD	0.01	Cook Is.	
91.4	RFO	0.01	Poue Bo, NC	
91.5	ZK1ZDIT	0.04	Rarotonga, C.I.	
92.0	Radio Djido	0.1	Touho, NC	
92.6 92.2	" "	0.5	Mont do, NC	
92.8	" "	0.1	Kone, NC	
93.0	RFO	0.05	Koumac, NC	
93.1	A3R Tonga	0.25	Nuku'alofa	
93.5	NRJ 2000	0.5	Noumea, NC	
93.5	RFO	1.0	Lifou, NC	
93.8	RFO	0.01	Thio, NC	
93.9	VL2NI	0.1	Norfolk	

50 sec

20 sec each

CB — 61M Hz

HM — 105M Hz

10W = 10 dBW =

1 ÷ 2 = 3 Space Loss —

2 - 4 = 6

4 - 8 = 9

8 W = 10 + 12 = 22 dBW

3 db = 4.6°

Free: Area

+27 - 3 db

+ 22 dBW

+ 73 - 3 db

262 - - 3 db

+ 22 dBW

308 - - 3 db

#1 - 20° - 157°

Tower #2 —

Wires — Rotor Cables

~~Brown~~

Small Black:

Big White —— Green
" Brown —— Yellow
—— Blue

Small Blk + Wh

Orange:

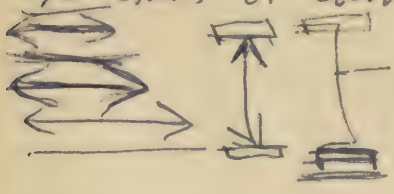
Green/Yellow —— White
Brown —— Black
Blue —— Red + Brn

2M M² — 18

~~DC~~	40 7/8	22"	#11 34 7/8"	272 13/16
DC	41.00	30"	#12 34 3/4	304 7/8"
#1	38 3/16	44.75"	#13 35.00	336.0
#2	37 9/16		#14 34 1/4	370 3/8
#3	36 7/8	62.5"	#15 33 15/16	402 7/8
#4	36 3/8	#3 1/16"	#16 33 15/16	435 7/8"
#5	36 1/16	106.25"		
#6	36"	131 1/16"		
#7	35 3/8	157 1/16"		
#8	35 1/16	194.25"		
#9	34 7/8	212 5/8"		
#10	34 11/16	[illegible]		

Fred R —

73 - Sons of Colour — Arrestations



INTELSAT LARRY VALENCIANO — 004 - 202

REF 24 NOV - Re Intelsat 21 at 844 - 7925

174E —

Lic:
Log:

Adj

1 — 574 - 582 575.25 — HUMANICA — Adj. to 85

1 - 646 - 654 647.25 [WAITANGI

44 - 654 - 660 655.25 MAUNGANUI

- 26 - 574 587.25 — HIKURANGI 62/719.25 - HORO UCB

— 559.25 - MAUNGATAPU

— 551.25 - [WAITANGI

— 543.25 - HUMANICA] Adj

— 535.25 - HIKURANGI] Adj.

— 527.25 - MAUNGANUI]

— 519.25 [WAITANGI — 52 - 719.25 / MAUN. / SKY

— 655.25 — MAUNGANUI — 53 - 722.25 / HIKU / SKY

— 663.25 — [WAITANGI + HIKURANGI 54 - 735.25 / HUMAN / SKY

— 671.25 — HUMANICA 55 - 743.25 / WAITA / TAB

— 679.25 — / WAI - BCL 56 - 751.25 / MAUN / TAB

— 687.25 — / MAUN - BCL / 57 - 759.25 / WAITA / TAB

— 695.25 / HIKU - BCL / 58 767.25 / HORO / TAB

— 703.25 / HORO - BCL / 59 775.25 / WAITA / UCB

— 711.25 [WAITANGI - SCI / 60 783.25 / MAUN / UCB

61 - 791.25 / SKY - WAITA.

Fujitsu bought Bob Duscatone

Di Pasquale Electrical
Pty / Ltd.
P.O. Box 318 Mareeba.
Australia 4880.
Phone / Fax (070) 921847.

Digital Compression is the enabling technology -
(18")

Compression around 20 years -
DCT algorithm Concern

- Name That Tune - 5 notes -

KRISKELKAR - GI
Digital Pipe into the Customers Home -
Virtual Cits / - General and Concerns -
Cits are NOT Real -

CH 1 8-10pm - 10pm - 1Am movie etc -
each Customer determines, his BW bits Rate -

- System is extremely Flexible -

Analogue Terms Cannot be upgraded -
DS1120RW - BSD? - Module

Lower Power Slots - Double Cit Capacity For SNR
[Future Compatibility]

MPEG-2 - Designed Digital Highway To The Future -
(Many) new Powers and this to await MPEG/Digital

Seamless Powers - Music To => <=

D+H Phase Box)

GI, CI (137°) 2 x 1 bm 25' Dishes —

Video Cipher OK - Tahiti —

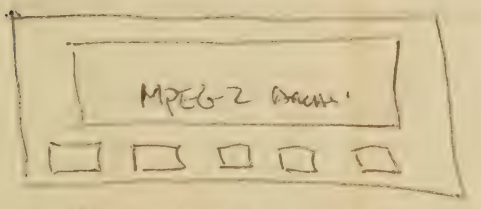
James Burgess — Am. Embass. Bangkok — Trade Officer —

Taylor on Digital

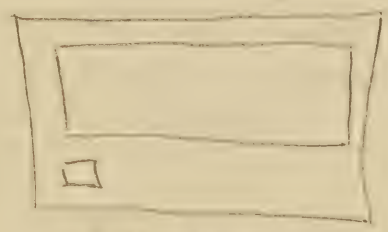
CQ Micro Systems — MPEG-2 — Multiplexus —
Comp & decompress for Real Time —
No Compress Tool solved

1 Conditional Access System per user —
all will work with MPEG-2 —
Rooms except Multiple Cards —

— To tune up on Digital — To Read Signal
Level meter on S/A — Noise to Signal —



Multiple Cond. users



1 Cond. user —

84 170

87 70

90 10

93 1

94 - 170

#2003 - (2000) digital laun

in 1 Cabinet - 2000

6 Mitra processors

Test Cabs - test itself

Core logic

33 patents — Approved — TO introduce

Digital TV —

Digital Decoder

Demodulator

Transport / Demultiplexer

MPEG Video

" Audio

Modem ← Smart Card — INFO BACK TO SMC

RF Modulator

— System Planners Wants TO Know within 4 hrs How much Money They made

Compression more difficult than decompression —

2 Types Compression

Real time /

OFF Line

Movie — OFF Line Very High Compression

Live Sports — Real time / Very fast —

OFF Line Comp easy — Real time difficult

BSKYB 95-98% of Cust. Pay on time
- down debut - Basic Charges - Weaken Turn Off
Fundamentals Laws of Nature

Direct TV - #7M Complete -

A) Level of Semi Conductor integration doubles 1.5yrs
B) Double Volume is -33%
C) Greater integration - greater reliability

1 Meg	$1M	1960	84 - no Chips + memory
	$40	1990	93 1 Gbyte + memory
	$1	2000	87-90 Gbyte + memory

Cost incredibly sensitive to Production

Dig Vid. Broadcasting
Cable
into 1994

1 access Control systems Fantasy
Intellectual Property Rights - IPR
over 5K patents applying to Digital TV
1.5 " oil wells -

MOST HACKS NOT based upon Breaking Robustness of Mathematics

Security is not An Absolute

1) Modified By Cost

2) Cannot use TOO High level of Security —

Before THE GCHQ/ NSA // GSM as example

TOO Hard TO Change — Take down level of Security /

The Smart Card

Has Rom - Microcontroller - Algorithm

RAM - Computational State

EEPROM - Authorisation approval

Buffered Bus - Makes difficult TO Bypass data -

Under Layers Polystream

Security Device - Tamper Clock - Polystream from

Processor —

I/O

SMS - offers future Possibility of using Sub. Profile

For Selling of Other Products — Reports Digest 1.3B - of which

300M is actual Publishing Revenue - Rest of $ From use of

data - Profiles - Lots. —

Sync Suppression / Video inversion / RTC (Videocrypt)

Sync + Video / Scrtch + Save - Red Hot Digital Invert Audio - Hi-Low

Line Delay / Cable + RTC - Conax Plus - Shifts start point of line each line is digitized - And invert

Line Shuffle / Videocrypt - into 256 parts -

Line cut & Rotate / Cryptovision

Digital MPEG /

- You can Mpeg 2 to cut often - Line cut & Rotate + Line delay For example -

disguise or disway with Sync /

Teletext page provides Sync to go with Red Hot Digital

Europe leaves Audio alone - US leaves Video Sync alone

Take Parts of Line & Swap about -

I line going in - 1/256 parts - back to 1 line -

XBi - line pong to data - A/D - Cut / Shuffle / D/A

Line Shuffle - Blocks of Lines

Clear Mode - any Pair - clear to Air

Free Mode - Any Pair That Has decoder W/out Activation

Normal Mode - only W/ Activation.

Security Processor is Typ. Smart Card - Seed information

63 Sats Subscribers - Share w/ Granada Hands -

Astra - 41 dBW | 35 dBW to UK, Scand. -
VT ≠ 43 dBW at Edges // 47 dBW at Kw -

1996

Scrambling overview

86 - The VC SMS. is A very Sophisticated System, Tamperproof & Unbeatable

91 - The issue of descrambler Secrecy is no longer With it be broken, but When it will be broken

GI

VC Div 1991

Batmanie is Released
Join Vids Then - to Dreamtime - Copies by Nightfall

Direct access to Ind. Subscribers
Ways to Collect

SMS - Subscriber Management System -
System to Collect Money -

Scrambling vs Conditional Access -

BSkyB SMS is in Scotland ⇒ Australia 4000 Cancel Next Month → Sat upload - Switch off Card → Sat

Hong Kong

Asiasat - 852-773-1050 Fax

94-C Band / H3, V1 - 36.4dBW Peak H3

V1 Spot - Pointed Slightly TV South -

1 ——— July 94

2 - 134°E 95 Will include Ku Band

Palapa

Asiasat used B1 TV Asiasat - Transfer of Passes -

Follow on —

Asiasat Sat 2 - Star TV has Reserved multiple CAS -

+ Greasy Pocket Reserve of 9 TDS -

Star TV may also use Asiasat as well -

Ramsat /

1st Gen 134°E /

2nd gen - Express 2+ TR Capacity - 1995 -

Express one gen steerable Zone & Hemi / Conjoint

is 1x Fixed

→ + 2 Ku Steerable - Ku NOT Visible direct TO Hemi

Express 91.5° / used by Insat 1C - 1994

Cust Pas-1 — HOW TO PAS 3 —

ABC CBS NBC / BBC / EBU / EBN / ESX /

HBO esd —

Sold out Pas-1 for 1992 —

1995-6 UNICOM — anybody Players That Hope to be up

170°E / 36dBW N N3/C

Astra 2 100.5 E2 - Early 1995 launch —

Single Down Link on C —

Ku not to N3 Aust. - Primary to China /

55 Watts C / Marion Malaysia / 39dBW Mex

3.620 to 4.2

VIII / 8 1996

Gol at 174°E Higher Power/Ku Spots — (1996)

PAS 4 — already Signing Cust. IOR Sat
Ground Spare 11 month — delay —

PAS 2 - 191° W (169°E) Mid 94 Launch

63W
34W Ku
C - 2/3 dB Higher than USA —

HS 601 - /optimized For digital/
15 year design Geos Life —
Fiji - 66° EA/
Melb 40° EA/
Ku — 1
C Beams - 2 categories of beams
Hot Four - 36 dBW / 32 or 33 dBW NZ —
[3m dish is on EDGE of Aus Spot
Aus (NZ) 44/45 dBW - Ku —

Intelsat

177°E / op. Jan 01 /

Med. power Ku Steerable - N+S

C Hemi - 33 > 12' (3.5m)
Globe - 33

H Powered C Band Spots - Steerable
anywhere - + 3 Ku Band Spots

Intelsat Service & Marketing -
Fax // 1-202-944-7930
Box 21
Wash. DC.

VII - 26/10 SW; Tenable allocation of Zone
VIIA - 26/14 TWT Transponders -
VIII - 38/6

NW NE
SW SE

Beams - New Sets
N3 - SW Zone + Hemi + Spot - All 3 for
Coverage -

SPIS LOKKO — COVN FRACLSUS —

ADDRESS — > OF SOUNDS - 40 before, now 50

FEB Turn on

17-12-93 - Thaicom — 2 yrs conception to launch — Demonstrate in 1st half of 94 — 2nd half Status

Shinawatra Computer & Comm. Group of Cos
Has Best/Cable/Pay TV interests

Replaces Fixed Coordination
100.5 / 77.° Asiasat
1st / 78.5 Thaicom
Co-locate Both Thaicom

304R Conversion (1991)
Offset Higher/Positive/

Provide Sites to converge under footprint

10 x C + 2 B/up — Pol #1 / Pol #2 Opp. Pol. — 38.5 dBW — US 30dBS TR ants — Turner Sidewalks — 41 DTH 0.4 → 0.8m
2 x 1Ku + 1 B/up (was 101) — 54 dBW (footprint also Korea)
78.5° E / Thai Production Rooms + Apts goal of 2001 + 3 yrs

5 Cats Comm TV 'C' Band + Existing TV Cats —
Replaces 3 Palapa & 2 Intelsat now in use —

Laos + Cambodia also use —
VSAT/Telecom Thailand + Thaicom

Distant Learning Cats — 1 TV Ch. for Purpose — Ed. M.W.3.24 —
DTH - 2nd half 94 / Fixed Dev. Packs

Has Mit Selected Digital Supplier Yet

DBS - 4 to 8 per TR
2 Colocated 32 total Cats (8 per)
256 Cats — "Whole Bunch"
April 1993 / In Systems 1993-4 /

CG + Thomson — MPEG-2 — defacto Standard

Thurs

930 - 1015 AM - NBC Today

1045 - 12N - " other

1:45 - 2:30 - PBS TV via Astrocast

Friday

11:30 - 12N -

Workshop 80-90 people

Marketing

1) Intelsat PoR – Where Flown from –
   Tel/Fax #'s of Flt Control Centre –
2) AsiaSat 2 – Ku a Csu? Yes but not N3
3) Palapa C1 – " " ? Yes " " "

   Who will use Ku ≠ What are footprints at Ku? – See Phone3

4) Thaicom – is SUC to be profit making?
5) Apstar – Status on – Migration of Palapa users to Apstar
   A) Short or Long Term? – vs using Palapa C1-3?
6) Sun TV – As of up to last week – Not 3 CNs Active (2 TV, 1 data) – only 1 TV Cal – 6 to 9 PM Roming / 5-6 PM TP (Madras time) – at or below threshold beam edge – 3 Hour change is several dB on 15' dish.
7) Cookcat Pos-2 footprints? Publish in What?
   – When to 169 From 168
8) K2 SX4 Link LHCP – 5 MHz < Can on Intelsat at 182° – What is?

Build on Antenna — Keep OSC. Stable / ✱ NOT OFF with
Keep LNB from Condensing Moisture —
If Gain Control of Rcvr — Compensate for Rain Light

Singapore — Very well defined System & Controls for distributions — Minimal detailed Reports to Ministry of all incoming, instead, Ours Shipped Goods — Some check of documents

Exotospheric - Losing money - Probably Costs $40K USA per Year to Keep Ex Pats There (35% more Hong Kong) with overheads — Sales Volume does not equal O/H.

3 positions — total - 75,587

N3 Show Notes

1) Have Professional Dish inside at front of Room — use simulated signal source

2) Re-edit early shows on tape for CCTV distribution —

3) Need Hams on site instant person to lead discussions —

4) Audio — Wireless mikes & test system

5) Hardware
   A) ARC finder / Gaussmeter —
   B) Inclinometer
   C) Compass / Digital

6) Consider Multi-lingual

7) TV Coverage — Audio tape disc / video tape
   Hams on — ONLY.

8) Lay out dish against on wall simulator
   Check offset curve — to adjust for tracking
   Use laser light to track dish on wall —

Thaicom

6 TRS - 20 CHS TV / Projecting 50K systems
1ST 12 YEAR // Screening of Show Preceded Thaicom
* Helped prepare Thaicom 3 Installation for New Sat TV Svc.

C 10MM (6 MM) — 6 MM
Ku 2-6Ghz — 2MM

.3 deeper — 161° BW + Gobal Ring
.45 deep — 117° BW

Side Ring Based — deep dish — = E+H feeds
" " Fre Forward — Shallow dish +
deeper — better Perf / Harder to Assemble / More exp.
Flange — Not as good / Quicker to install (.4↑)
.35 to .38 best trade off

X strings Across Lish - Meet in middle —
Feed Look Straight at Centre
Move feed in/out —

Focal finder — use to find exact centre
of Dish from Feed Centre — same as Jr
Laser Focal Finder — sit in hat inside Feed Centre
In Live Fsms — Angle Times Change —
N/S Alignment / Start upper Mast
a) go to lowest / Clearance drop
B) Pilot Dish on Pole to find Sat — using buddle
C) Peak Highest & move only Actuator — Use Elevation Systems

High — Actuator & Elevation
Low — " " Azimuth

ANIK C 1

C Band + Ku Band Beam Profiles

Frequencies – 3MHz to 30GHz

Figure 3-1 – Satellite TV System

Satellite System Components C + Ku

TAYLOR SAYS: 4M US dishes –
whereas WORLD Market is 500,000 per year – (1K sold Month)
& USA is 50K p/Month –
Believes DirecTV Target is 2M Year 1 – 6M
dishes Hardware will be available to do this.

SRI LANKA – CNN & BBC Asia – EXACT SAME
Feed AS Local MW – +40dB Columbo TO S. Isp – 2W/

Taylor sees 2m C Band dishes – Centre of Thrust
Asiasat Beams
URidge Pacific Pack (Turkey) 1KM

Errata - AVL Circular - ?

CG - Rotor feed - Chap. / Didactic Plane

SWITCH OVER TO DIGITAL

A) WHEN MPEG 2 CARDS?

B) WHEN DECISIONS ON VIDEOCIPHER BW —

C) IF VIDEOCIPHER BW WILL VARY — HOW WILL RECEIVER BW BE HANDLED?

D) HOW LONG BEFORE SOFTWARE DRIVEN RECEIVER BW/ AUDIO/ FORMAT DECISIONS? — ↓

E) HOW DISRUPTIVE OUTPUT ON ANALOGUE FORMATS SWITCH?

F) ↑ WHAT IS ~~PROPOSED~~ LIKELY FOR SAT. STANDARDS FOR DIGITAL TO HOME BROADCASTING —

G) WILL DIGITAL RECEIVERS HAVE DIRECT DIGITAL OUTPUTS TO DRIVE DIGITAL INPUT RECEIVERS — BASEBAND & RF?

H) WITHOUT DIGITAL STANDARDS — HOW DO YOU DESIGN RECEIVERS FOR VARYING BWS & AUDIO FORMATS?

Joint Kauai: Still There —

Mike Gustafson: Digital MW / Spread Spectrum
Freeskin of Texas Mfg

Norman Gillespie: Hand tones — 12GHz VSAT —
2 yrs Cosmic Forms

Lamar Distribution — Louisiana: Mille Fournement
+ Jue — bad and accounts — Sold off

Jim Spisak: No Change

David Brough: Going in Canada —
Tammie Feel Human Now — To Canada
Bought Forst out — Miami — Chapparelled

Rod Wheeler — Northern Satellites Nunsat 7
2 yrs ago — Nunsat Still

About Space: Tony Still Chairman

Larry Durham — 7.5M / Retired — Put in
Tom Bunker — Flowers Bus. Boston — Committee Bus Space
Dir of GI — San Diego —

NC Scanlight: Brian [illegible]

Russ – Move back to L.V. –

Bob Mantachi: Solid Co. TO 2nd Home People
Aston-Jet – / Feeds – | Solo || Push Button Arm-Tip Feed – Style – Back to Tatum

Kenny Schaefer: Russian origin / Married Russ. agency –
IN Co. seeing Suit Drawings – NYC Apt. – Brian Rent Strike –

Peter Sutton: Back to States – NJ –
Letter to make letter w/ Tony to Bob

Steve Bianchi: Never made a Nickel
Still Has TIE – Consultant |
Chris ——— Boatyard – Fountainhead Yacht – Flat –
Doug (Brown) & Scaffolders / NC Pushbutton:
L Solo Gen Store / Stern Sights Patent

Stubbs / Jim Fullbright / Cellular Tower –
Tower Co. to GPS / SJB – Another Name
Fold

Randall Odom: Out of Equip –
Jesus Christ: There elephants have big
ears –
Dave Wolters – Idea to Direct Trademark –
Still Howard Rubco –

Charlie / Carly Fiorina: 4 cards || very friendly
Company | McKinsey

Peter Drake: Running Pres—

Gary Kissinger / SVS: in Sales | distribution — moves
Around —

Tim Harrington — New Products / SCPC | Flat

Andy Hatfield: on another Planet | Panda Bear

Jamie Gowen: in Hong Kong 2 yrs / Love it |
Rep. Bluff

Doug Dellinger — Still around — but?

Sally DeNeratos — HSC: ?

Eckstein et al

Intellectual Rights for Software Policy - Doug B -

UV is going Public - has no Patent Protection on any Hardware

Wissen in Bits

Tag – What About?

RL Brown: Brown, Foon & Nitsch – Cellular – Lopsided Floor

Robyn? – Both ?

David Johnson: Art & Wife

Rob Forst – Dish – alive

Guy Davis: – SWA dead

Robert Coleman: ?

Shawn Kenny: Has still Doing TV Show – Shopping – Dir. Chief Pursuit – Was getting sued on Foot / Is Shingling Roof – Inspect – Fed Of, Ord: Art: NV. – Tony Shopping – 2 Stories – Cement Creek –

Bob Behan: Shawn St TV Ants – 3 Large Upload Remote Trucks – 2nd Net

Hialeah upgrade – still Issues – Pop Rivets + Screws – Jeff K – Continuous Cam Dishes To Astra – Issues – It's Tilt Hat Stuck – No Pivot Points

Dave Fedric: ?

Hanson Towers – Pasco umbrella Ashley –

A Chinese Scholar in a Chinese Successful Playtime
Gu Feng

Chinese

Taipei - Taipei

MTV is Likely to be Banned - MTV Goes Beijing, Jakarta et al - Fast Track to Ruining a Culture & a Generation -

As Worst Problems develop -

Singapore - $39 3 Cats - $30 1 Cat -

States now Nanny, Kissing Taboo - How upper Crust -

Prices ↑ /

Cultural - Chinese Food / Chinese Stores / Health - etc

1947 - Mumbai - Chinese will never allow Foreign Control of Their Media - will oppose Murdoch in Russia -

Feeling in Asia over Loss of 2008 Olympics to "West" Runs very High - and - Western Feelings Are deep & Re Kindled because of Olympic decision - Well Educated people Chinese sincerely believe decision was best for China - but Method of Handling was Mistake - Chinese Lost Face - How China got 2008 Olympics - Cost to New Beijing China World have been very High - Further exacerbating the Diff. between over developed Beijing and Western China where very Primitive Conditions still exist

For Cats to Make it in Asia - They must make dubbing
our efforts (Sub Titles Translations) to speak to people in their own Language - 3 to 5 years Period to Success -

Expectation of Western Creed American, British Substance will Remain a Thorny, unresolved issue for many years - McKinsey, others Leading Loud Voices against Overflow from us etc.

Sun TV / 6-7pm Madras / TP +1 Hr — Bird Moves — Stands over Equator — Has improved station keeping — Taped — Prepared Insite — unblocked Russia — Soft Goods, Fruit, App. Ads — Tamil were Wireless moved in Mass by Basic Forces — Burma, Malaysia et al — // Indian Cable is Really Neighborhood TV Fed From Dish — Major Cities is Stands. Cable — 12 Cats — #350 US PIM Rural Areas — Fewer (1) Cats — Usually within SW M — 20+ Homes per dish — 100 Rupees — 4N3 #5 — BBC World Svc # Sky Cats Big draw — VCR Mod #.35 US PIM Indian Govt could not make Total Blackout (Mixed with Govt) — has clamped down on Movies Shown if They don't have Offices at Censor Approval — But Most Movies have 2 Edited Versions — 1 W, 1 W/O Censor Clearance — Cable ops Keep 1 X EACH on Hand — Violation can mean Confiscation of Cable Eqpt — 16' Dishes Common — Indian MFG — Cable Tracked Blog TV Blog — None Really Community Yet — To Come —

Cable on Malaysian TV — 30 min PM Seg — + Tamil Language Pgms — // Tamils in Sri Lanka only got Right to Vote in 60s — They have Restricted Cable Rights — Sun TV is Entertainment But is expected to be a Political Tool in Future elections —

Send Pierre Cal Cable TV Show dates

forth-right
forty
four-some
fran-chise
ful-fill

G

gauge
gen-uine
ges-ture
gi-gan-tic
gnaw-ing
gor-geous
gov-ern-ment
gov-er-nor
gram-mar
gra-tu-ity
griev-ous
gro-cery
grudge
guar-an-tee
guid-ance
gym-na-sium

H

hand-ker-chief
hand-some
hap-haz-ard
heart-rending
heav-ily
hec-tic
height
hem-or-rhage
hin-drance
homely
ho-mo-gen-ize
ho-siery
hy-giene
hy-poc-risy

I

idi-osyn-crasy
il-le-gal
il-legi-ble
il-lit-er-ate
imi-ta-tion
im-me-di-ately
im-mi-grant
in-au-gu-rate
in-ci-den-tally
in-deli-ble
in-de-pend-ence
in-flam-ma-ble
in-hab-it-ant
in-stal-la-tion
in-te-grate
in-ter-cede
in-ter-fere
in-ter-fered
in-vei-gle
ir-rele-vant
ir-re-sisti-ble
ir-revo-ca-ble
is-suing
its (possessive)
it's (contraction)

J

jeop-ard-ize
jew-elry
jour-ney
judg-ment
jus-ti-fi-able
jus-ti-fied

K

kero-sene
khaki
kid-naped
ki-mono
kin-der-gar-ten
knowl-edge

L

la-bel-ing
labo-ra-tory
lac-quer
led (past of lead)
ledger
le-giti-mate
lei-sure
li-ai-son
li-brary
li-cense
lien
lik-able
liq-uefy
li-que-fac-tion
lis-ten
live-li-hood
lone-li-ness
loose (adj.—free)
lose (verb)
lovely

M

main-te-nance
man-age-able
man-age-ment
ma-neu-ver
man-ual
manu-fac-turer
manu-script
mathe-mat-ics
me-di-ocre
mile-age
mis-cel-la-ne-ous
mis-spell
mod-ern
mort-gage
mov-able
mur-mur

N

nec-es-sary
ne-ces-sity
nickel
niece
nine-teenth
ninety
ninth
non-en-tity
no-tice-able
no-to-ri-ety
now-a-days
nui-sance
nu-mera-tor

O

oblige
oc-ca-sion
oc-ca-sion-ally
oc-curred
oc-cur-rence
omis-sion
omit-ted
one-self
op-po-nent
op-po-site
op-ti-mism
or-di-nance (law or regulation)
ord-nance (military supplies)

P

pag-eant
pam-phlet
para-chute
par-al-lel
par-cel
par-lia-ment
par-lia-men-tary
par-tial
pas-teur-ize
peace-able
pe-cul-iar
peni-cil-lin
per-form-ance
per-ma-nent
per-mis-si-ble
per-se-ver-ance
per-son-ally
per-son-nel
per-suade
Phil-ip-pine
phy-si-cian
Pitts-burgh (Pa.)
pla-gi-arism
play-wright
pos-ses-sion
po-tato
prai-rie
pre-cede
pre-ced-ing
pre-cious
preci-pice
pre-fab-ri-cate
pref-er-able
pre-limi-nary

pre-sump-tu-ous
preva-lent
prin-ci-pal (chief or main)
prin-ci-ple (rule or method)
privi-lege
pro-ce-dure
pro-ceed
pro-fes-sor
promi-nent
prom-is-sory
pro-nun-ci-ation
pro-pel-ler
proph-ecy (noun, prediction)
proph-esy (verb, to predict)
psy-chol-ogy
pub-licly
pur-sue
pur-su-ing

Q

quan-tity
ques-tion-naire
quix-otic
quo-tient

R

ran-sack
rap-port
re-ceipt
re-ceive
re-cipi-ent
rec-om-mend
rec-om-men-da-tion
rec-on-cile
re-cur-rence
ref-er-ence
re-ferred
rele-vant
re-lief
re-nown
re-pel-lent
re-plies
re-scind
res-tau-rant
re-veal
rhap-sody
rheto-ric
rheu-ma-tism
rhu-barb
rhyme
rhythm
ri-dicu-lous
ro-tary

S

sac-ri-le-gious
safety
sal-able
scho-las-tic
scis-sors
sec-re-tary
seize
sen-si-ble
sepa-rate
se-rial
shep-herd
ship-ment
siege
simi-lar
si-mul-ta-ne-ous
since
siz-able
skep-ti-cal
sou-ve-nir
sov-er-eign
sneak
sneer
spe-cifi-cally
speech
split-ting
sta-tion-ary (fixed)
sta-tion-ery (paper)
sta-tis-tics
strictly
sub-sidy
suc-ceed
suc-ces-sor
suf-fi-cient
su-ing
su-per-in-tend-ent
super-sede
sur-geon
sur-prise
sur-vey
sus-cep-ti-ble
sus-pi-cious
sym-me-try
syn-ony-mous

T

tai-lor
tan-gi-ble
tar-iff
tech-ni-cal
tech-nique
tele-vise
tele-vi-sion
tem-po-rary
ten-ant
tend-ency
ter-ri-ble
ter-ri-tory
their (possessive)
theory
too (also)
trag-edy
trans-ferred
tri-umph
Tuc-son
tying
tyr-anny

U

unani-mous
un-doubt-edly
unique
un-kempt
us-able
use-ful
usu-rer
usurp

V

062 LN
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ferable
bicate)
vege-ta-ble
ve-he-ment
video
vil-lain
visi-ble
visi-tor
vi-ta-min
vol-ume

W

waiver
war-ranty
weather
Wednes-day
weird
wel-fare
whether

X

x ray (noun)
x-ray (adj. and verb)
xy-lo-phone

Y

yacht
yeo-man
yes-ter-day
young-ster
you're (contraction)
youth

Z

zeal-ous
ze-nith
zephyr
zo-diac
zo-ol-ogy

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